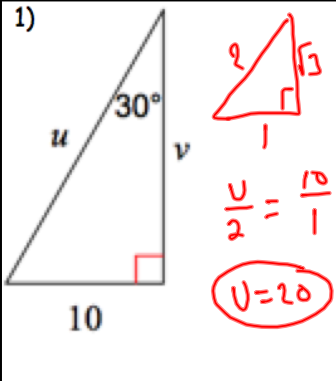
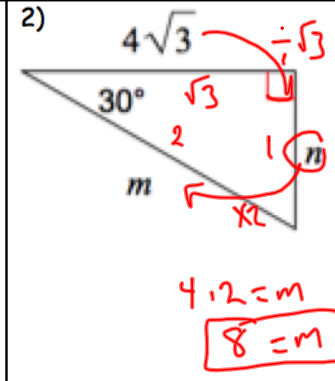
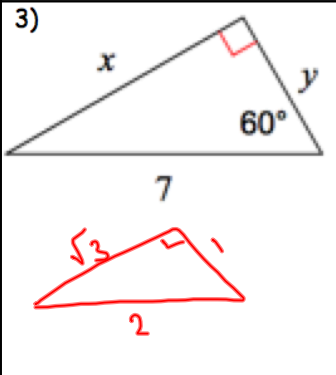


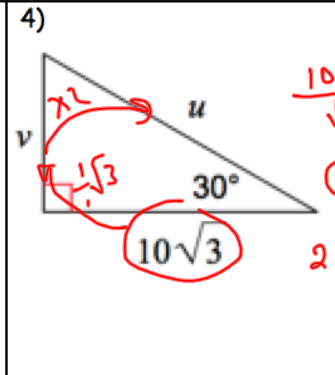
7.2 Practice Problems

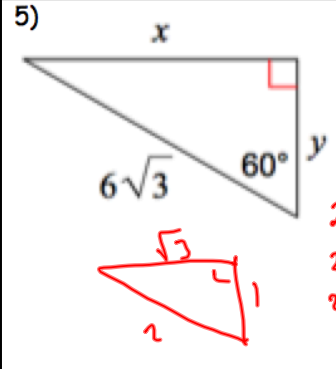
Directions: Find the missing side lengths. Leave your answers as radicals in simplest form.

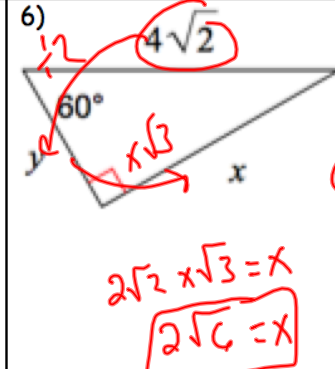
1)   $\frac{u}{2} = \frac{10}{1}$   $\frac{v}{\sqrt{3}} = \frac{10}{1}$   
 $u = 20$   $v = 10\sqrt{3}$

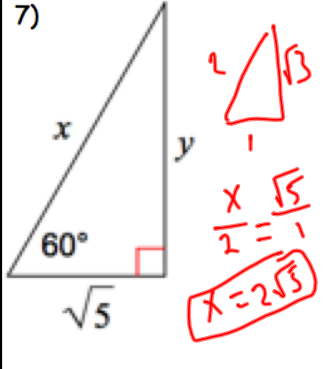
2)   $4\sqrt{3}$   $\frac{4\sqrt{3}}{\sqrt{3}} = n$   
 $4 = n$   
 $4 \cdot 2 = m$   
 $8 = m$

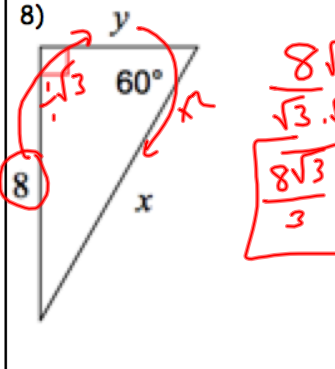
3)   $\frac{x}{\sqrt{3}} = \frac{7}{2}$   $\frac{y}{1} = \frac{7}{2}$   
 $2x = 7\sqrt{3}$   $y = \frac{7}{2}$   
 $x = \frac{7\sqrt{3}}{2}$

4)   $\frac{10\sqrt{3}}{\sqrt{3}} = v$   
 $v = 10$   
 $2 \cdot 10 = u$   
 $20 = u$

5)   $\frac{x}{\sqrt{3}} = \frac{6\sqrt{3}}{2}$   $\frac{y}{1} = \frac{6\sqrt{3}}{2}$   
 $2x = 6\sqrt{3} \cdot \sqrt{3}$   $y = 3\sqrt{3}$   
 $2x = 6\sqrt{9}$   
 $2x = 6 \cdot 3$   
 $2x = 18$   
 $x = 9$

6)   $\frac{4\sqrt{2}}{2} = y$   
 $2\sqrt{2} = y$   
 $2\sqrt{2} \cdot \sqrt{3} = x$   
 $2\sqrt{6} = x$

7)   $\frac{y}{\sqrt{3}} = \frac{\sqrt{5}}{2}$   $\frac{x}{2} = \frac{\sqrt{5}}{1}$   
 $y = \sqrt{15}$   $x = 2\sqrt{5}$

8)   $\frac{8\sqrt{3}}{\sqrt{3} \cdot \sqrt{3}} = y$   $\frac{8\sqrt{3}}{3} (2) = x$   
 $\frac{8\sqrt{3}}{3} = y$   $\frac{16\sqrt{3}}{3} = x$

9)

$\frac{4}{2} = \frac{x}{\sqrt{3}}$   
 $2\sqrt{3} = x$   
 $\frac{4}{2} = \frac{y}{1}$   
 $2 = y$

10)

$\frac{10\sqrt{3}}{\sqrt{3} \cdot \sqrt{3}} = b$   
 $\frac{10\sqrt{3}}{3} = b$   
 $\frac{10\sqrt{3}}{3} (2) = a$   
 $\frac{20\sqrt{3}}{3} = a$

11)

$8\sqrt{3} = 4$   
 $8\sqrt{3} (2) = x$   
 $16\sqrt{3} = x$

12)

$9\sqrt{6} (2) = y$   
 $18\sqrt{6} = y$   
 $\frac{18\sqrt{6}}{\sqrt{3}} = z$   
 $18\sqrt{2} = z$   
 $18\sqrt{2} (2) = x$   
 $36\sqrt{2} = x$